



FORM 100-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

16887.068

APPLICATION NO.

10/764,112

APPLICANTS

Joseph C. HOGAN, Jr.

FILING DATE

January 23, 2004

GROUP

4772-1624

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
RR	4,631,211	12/1986	Houghten			
RR	5,010,175	04/1991	Rutter <i>et al.</i>			
RR	5,053,454	10/1991	Judd			
RR	5,143,854	09/1992	Pirrung <i>et al.</i>			
RR	5,182,366	01/1993	Huebner <i>et al.</i>			
RR	5,223,409	06/1993	Ladner <i>et al.</i>			
RR	5,225,533	06/1993	Rutter <i>et al.</i>			
RR	5,288,514	02/1994	Ellman			
RR	5,300,425	04/1994	Kauvar			
RR	5,324,483	06/1994	Cody <i>et al.</i>			
RR	5,359,115	10/1994	Campbell <i>et al.</i>			
RR	5,367,053	11/1994	Dooley <i>et al.</i>			
RR	5,424,186	06/1995	Fodor <i>et al.</i>			
RR	5,449,754	09/1995	Nishioka			
RR	5,463,564	10/1995	Agrafiotis <i>et al.</i>			
RR	5,464,759	11/1995	Coolidge <i>et al.</i>			
RR	5,503,805	04/1996	Sugarman <i>et al.</i>			
RR	5,525,734	06/1996	Gallop <i>et al.</i>			
RR	5,525,735	06/1996	Gallop <i>et al.</i>			
RR	5,545,568	08/1996	Ellman			
RR	5,574,656	11/1996	Agrafiotis <i>et al.</i>			
RR	5,609,826	03/1997	Cargill <i>et al.</i>			
RR	5,614,608	03/1997	Krchnak <i>et al.</i>			
RR	5,639,866	06/1997	Kahne			
RR	5,646,285	07/1997	Baindur <i>et al.</i>			
RR	5,651,943	07/1997	Lam <i>et al.</i>			
RR	5,663,046	09/1997	Baldwin <i>et al.</i>			

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RR	5,670,326	09/1997	Beutel			
RR	5,684,711	11/1997	Agrafiotis <i>et al.</i>			
RR	5,738,996	04/1998	Hodges <i>et al.</i>			
RR	5,744,305	04/1998	Fodor <i>et al.</i>			
RR	5,766,556	06/1998	DeWitt <i>et al.</i>			
RR	5,770,455	06/1998	Cargill <i>et al.</i>			
RR	5,807,683	09/1998	Brenner			
RR	5,831,014	11/1998	Cook <i>et al.</i>			
RR	5,864,010	01/1999	Cook <i>et al.</i>			
RR	5,877,278	03/1999	Zuckermann <i>et al.</i>			
RR	5,958,702	09/1999	Benner			
RR	5,968,736	10/1999	Still <i>et al.</i>			
RR	5,985,356	11/1999	Schultz <i>et al.</i>			
RR	5,985,551	11/1999	Brennan			
RR	6,001,579	12/1999	Still <i>et al.</i>			
RR	6,060,596	05/2000	Lerner <i>et al.</i>			
RR	6,096,276	08/2000	Laursen			
RR	6,121,048	09/2000	Zaffaroni <i>et al.</i>			
RR	6,245,937 B1	06/2001	Cheng <i>et al.</i>			
RR	6,319,668 B1	11/2001	Nova <i>et al.</i>			
RR	08/092,862	07/1993	Armstrong			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RR	0 604 552 B1	02/1997	EPO			Yes No
RR	90/15070	12/1990	PCT			Yes No
RR	91/17271	11/1991	PCT			Yes No
RR	91/19735	12/1991	PCT			Yes No

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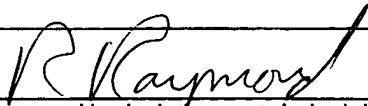
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RR	91/19818	12/1991	PCT	—	—	Yes No
RR	92/10092	06/1992	PCT	—	—	Yes No
RR	93/09668	05/1993	PCT	—	—	Yes No
RR	93/20242	10/1993	PCT	—	—	Yes No
RR	93/22684	11/1993	PCT	—	—	Yes No
RR	94/08051	04/1994	PCT	—	—	Yes No
RR	94/08711	04/1994	PCT	—	—	Yes No
RR	95/02566	01/1995	PCT	—	—	Yes No
RR	95/35278	12/1995	WO	—	—	Yes No
RR	95/16209	06/1995	PCT	—	—	Yes No
RR	95/32425	11/1995	PCT	—	—	Yes No
RR	96/23749	08/1996	PCT	—	—	Yes No
RR	0 643 778 B1	05/2000	EPO	—	—	Yes No
RR	0 734 530 B1	11/1997	EPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RR			Armstrong, Robert W. <i>et al.</i> , "Analogues of the Azinomycins: Selective Acetylation via Orthoacetate Hydrolysis," (Abstract), (1993).
RR			Baldwin <i>et al.</i> , "Synthesis of a Small Molecule Combinatorial Library Encoded with Molecular Tags," <i>J. Am. Chem. Soc.</i> , 117:5588-5589, (1995).
RR			Barbas <i>et al.</i> , "Direct selection of antibodies that coordinate metals from semisynthetic combinatorial libraries," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 90:6385-6389 (1993).
			Blondelle <i>et al.</i> , "Development of New Antimicrobial Peptides Using Synthetic Peptide-Combinatorial Libraries Containing Unnatural Amino Acids," <i>Torrey Pines Inst. for Molecular Studies</i> (Abstract).
RR			Boyce <i>et al.</i> , 1994, "Peptidosteroidal Receptors for Opioid Peptides. Sequence-Selective Binding Using a Synthetic Receptor Library," <i>J. Am. Chem. Soc.</i> , 116:7955-7956.
RR			Bray, Andrew M. <i>et al.</i> , "The Simultaneous Multiple Production of Solution Phase Peptides: Assessment of the Geysen Method of Simultaneous Peptide Synthesis," <i>Tetrahedron Letters</i> , Vol. 31, No. 40, pp. 5811-5814, 1990.
RR			Brenner and Lerner, 1992, "Encoded combinatorial chemistry," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 89:5381-5383.

EXAMINER	DATE CONSIDERED
<i>R. R. Rimmer</i>	2-16-05
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RR		Bunin and Ellman, 1992, "A General and Expedient Method for the Solid-Phase Synthesis of 1,4-Benzodiazepine Derivatives," <i>J. Am. Chem. Soc.</i> , 114:10997-10998.
RR		Bunin <i>et al.</i> , 1994, "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 91:4708-4712.
RR		Burbaum <i>et al.</i> , 1995, "A paradigm for drug discovery employing encoded combinatorial libraries," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92:6027-6031.
RR		Campbell <i>et al.</i> , 1995, "A Transition State Analogue Inhibitor Combinatorial Library," <i>J. Am. Chem. Soc.</i> 117:5381-5382.
RR		Carell <i>et al.</i> , 1995, "New promise in combinatorial chemistry: synthesis, characterization, and screening of small-molecule libraries in solution," <i>Chemistry and Biology</i> 2:171-183.
RR		Chabala, 1995, "Solid-phase combinatorial chemistry and novel tagging methods for identifying leads," <i>Current Opinion in Biotechnology</i> 6:632-639.
RR		Chen <i>et al.</i> , 1994, "Analogous Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis," <i>J. Am. Chem. Soc.</i> 116:2661-2662.
RR		Cho <i>et al.</i> , 1993, "An Unnatural Biopolymer," <i>Science</i> 261:1303-1305.
RR		Christian <i>et al.</i> , 1992, "Simplified Methods for Construction, Assessment and Rapid Screening of Peptide Libraries in Bacteriophage," <i>J. Mol. Biol.</i> , 227:711-718.
RR		Combs, Andrew Paul, 1994, "Syntheses and Structure-Activity Relationship Analyses of Dehydroamino Acid Derivatives Related to the Azinomycins," Dissertation, University of California (Thesis and Abstract of Thesis).
RR		Combs, Andrew Paul <i>et al.</i> , 1993, "Highly Convergent Synthesis of Azinomycin Analogs Via Passerini Reactions of Vinylaziridine Isocyanides," <i>Am. Chem. Soc. Vol. 206(1-2):367</i> .
RR		Cwirla <i>et al.</i> , 1990, "Peptides on phage: A vast library of peptides for identifying ligands," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 87:6378-6382.
RR		Desai <i>et al.</i> , 1994, "Recent Advances in the Generation of Chemical Diversity of Libraries," <i>Drug Development Research</i> 33:174-188.
RR		Devlin <i>et al.</i> , 1990, "Random Peptide Libraries: A Source of Specific Protein Binding Molecules," <i>Science</i> 249:404-406.
RR		DeWitt <i>et al.</i> , "Diversomers: An approach to non-peptide, nonoligomeric chemical diversity," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 90:6909-6913 (1993).
		<del>Dooley <i>et al.</i>, "New, Potent N-Acetylated L- and D-Amino Acid Opioid Peptides," Torrey Pines Inst. for Molecular Studies (Abstract).</del>
RR		Ecker <i>et al.</i> , 1993, "Rational screening of oligonucleotide combinatorial libraries for drug discovery," <i>Nucleic Acids Res.</i> 21:1853-1856.

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RE		<del>Eichler et al., "Identification of Trypsin-Inhibiting All D-Amino Acid Peptides Through The Screening of a Synthetic D-Amino Acid Peptide Library," Torrey Pines Inst. for Molecular Studies (Abstract).</del>
RR		Eichler et al., "Cyclic Peptide Template Combinatorial Libraries: Synthesis and Identification of Chymotrypsin Inhibitors," <i>Peptide Research</i> 7:300-307 (1994).
RR		Ellman, 1996, "Design, Synthesis and Evaluation of Small-Molecule Libraries," <i>Acc. Chem. Res.</i> 29:132-143.
RR		Erb et al., 1994, "Recursive deconvolution of combinatorial chemical libraries," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:11422-11426.
RR		Fodor et al., 1991, "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> 251:767-773.
RR		Freier et al., 1995, "Deconvolution of Combinatorial Libraries for Drug Discovery: A Model System," <i>J. Med. Chem.</i> 38:344-352.
RR		Furka et al., 1991, "General method for rapid synthesis of multicomponent peptide mixtures," <i>Int. J. Peptide Protein Res.</i> 37:487-493.
RR		Gallop et al., 1994, "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries," <i>J. Med. Chem.</i> 37:1233-1251.
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RR		Geysen and Mason, 1993, "Screening chemically synthesized peptide libraries for biologically-relevant molecules," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 3:397-404.
RR		Geysen et al., 1987, "Strategies for epitope analysis using peptide synthesis," <i>Journal of Immunological Methods</i> 102:259-274.
RR		Gordon et al., "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions," <i>J. Med. Chem.</i> 37:1386-1401 (1994).
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RR		Houghten, 1985, "General method for the rapid solid-phase synthesis of large numbers of peptides: Specificity of antigen-antibody interaction at the level of individual amino acids," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 82:5131-5135.
RR		Houghten et al., 1991, "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery," <i>Nature</i> 354:84-86.

EXAMINER	<i>R. Raymond</i>	DATE CONSIDERED
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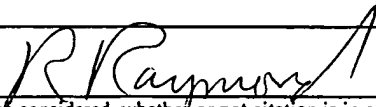
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RR		Houghten, Richard A., "The broad utility of soluble peptide libraries for drug discovery," <i>Gene</i> , 137:7-11 (1993).
RR		Jacobs and Fodor, 1994, "Combinatorial chemistry – applications of light-directed chemical synthesis," <i>TIBTECH</i> 12:19-26.
RR		Jung and Beck-Sickinger, 1992, "Multiple Peptide Synthesis Methods and Their Applications," <i>Angew. Chem. Int. Ed. Engl.</i> , 31:367-383.
RR		Kerr <i>et al.</i> , 1993, "Encoded Combinatorial Peptide Libraries Containing Non-Natural Amino Acids," <i>J. Am. Chem. Soc.</i> 115:2529-2531.
RR		Kick and Ellman, 1995, "Expedient Method for the Solid-Phase Synthesis of Aspartic Acid Protease Inhibitors Directed Toward the Generation of Libraries," <i>J. Med. Chem.</i> 38:1424-1430.
RR		Krchňák and Lebl, 1995, "Synthetic library techniques: Subjective (biased and generic) thoughts and views," <i>Molecular Diversity</i> 1:193-216.
RR		Lam <i>et al.</i> , 1991, "A new type of synthetic peptide library for identifying ligand-binding activity," <i>Nature</i> 354:82-84.
RR		Latham <i>et al.</i> , 1994, "The application of a modified nucleotide in aptamer selection: novel thrombin aptamers containing 5-(1-pentynyl)-2'-deoxyurine," <i>Nucleic Acids Res.</i> 22:2817-2822.
RR		Martin <i>et al.</i> , 1995, "Measuring Diversity: Experimental Design of Combinatorial Libraries for Drug Discovery," <i>J. Med. Chem.</i> 38:1431-1436.
RR		Moran <i>et al.</i> , 1995, "Radio Frequency Tag Encoded Combinatorial Library Method for the Discovery of Tripeptide-Substituted Cinnamic Acid Inhibitors of the Protein Tyrosine Phosphatase PTP1B," <i>J. Am. Chem. Soc.</i> 117:10787-10788.
RR		Murphy <i>et al.</i> , 1995, "Combinatorial Organic Synthesis of Highly Functionalized Pyrrolidines: Identification of a Potent Angiotensin Converting Enzyme Inhibitor from a Mercaptoacyl Proline Library," <i>J. Am. Chem. Soc.</i> 117:7029-7030.
RR		Needels <i>et al.</i> , 1993, "Generation and screening of an oligonucleotide-encoded sythetic peptide library," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 90:10700-10704.
RR		Nielsen <i>et al.</i> , 1993, "Synthetic Methods for the Implementation of Encoded Combinatorial Chemistry," <i>J. Am. Chem. Soc.</i> 115:9812-9813.
RR		Nikolaiev <i>et al.</i> , 1993, "Peptide-Encoding for Structure Determination of Nonsequenceable Polymers within Libraries Synthesized and Tested on Solid-Phase Supports," <i>Peptide Research</i> 6(3):161-170.
		<del>Ohlmeyer, Michael "Combinatorial Libraries Encoded with Molecular Tags" Pharmacopeia (Abstract)</del>
RR		Ohlmeyer <i>et al.</i> , 1993, "Complex synthetic chemical libraries indexed with molecular tags," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 90:10922-10926.

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RR		Ostresh <i>et al.</i> , 1994, "Libraries from libraries: Chemical transformation of combinatorial libraries to extend the range and repertoire of chemical diversity," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:11138-11142,
RR		Pavia, Michael R. <i>et al.</i> , "The Generation of Molecular Diversity," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> , Vol. 3(3):387-396 (1993).
RR		Pease <i>et al.</i> , 1994, "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:5022-5026.
		<del>Pinilla <i>et al.</i>, "A Soluble Synthetic Decapeptide Library Composed of Four Trillion Sequences for the Study of Antigen-Antibody Interactions" Torrey Pines Inst. for Molecular Studies (Abstract).</del>
RR		Pinilla <i>et al.</i> , "Investigation of antigen-antibody interactions using a soluble, non-support-bound synthetic decapeptide library composed of four trillion ( $4 \times 10^{12}$ ) sequences," <i>Biochem. J.</i> 301:847-853 (1994).
RR		Posner <i>et al.</i> , 1994, "Catalytic antibodies: perusing combinatorial libraries," <i>TIBS</i> 19:145-150.
RR		Romanovskis <i>et al.</i> , "Cyclic Peptide Libraries: Recent Developments" Dept. of Chem., U. of Louisville (Abstract), (1993),
RR		Scott, 1992, "Discovering peptide ligands using epitope libraries," <i>TIBS</i> 17:241-245.
RR		Scott and Smith, 1990, "Searching for Peptide Ligands with an Epitope Library," <i>Science</i> 249:386-390.
RR		Sepetov <i>et al.</i> , 1995, "Library of libraries: Approach to synthetic combinatorial library design and screening of 'pharmacophore' motifs," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 92:5426-5430.
		<del>Shikhman <i>et al.</i>, "Cytokeratin Peptides Mimic N-Acetyl-D-Glucosamine in Reactions with Antibodies and Lectins" Dept. of Microbiology &amp; Immunology, U. of Okla. (Abstract).</del>
RR		Simon <i>et al.</i> , 1992, "Peptoids: A modular approach to drug discovery," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:9367-9371.
		<del>Sprague, P.W., "Analysis of Structure Activity Data with Catalyst," BioCAD Corp. (Abstract).</del>
RR		Staňková <i>et al.</i> , 1994, "Application of One-Bead One-Structure Approach to Identification of Nonpeptide Ligands," <i>Drug Development Research</i> 33:146-156.
RR		Stephen and Lane, 1992, "Mutant Conformation of p53: Precise Epitope Mapping Using a Filamentous Phage Epitope Library."
RR		Wallace <i>et al.</i> , 1994, "A Multimeric Synthetic Peptide Combinatorial Library," <i>Peptide Research</i> 7:27-31.
RR		Wu <i>et al.</i> , 1994, "Identifying Substrate Motifs of Protein Kinases by a Random Library Approach," <i>Biochemistry</i> 33:14825-14833.

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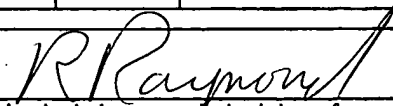
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EXAMINER <i>R. Raymond</i>	DATE CONSIDERED <i>2-16-09</i>
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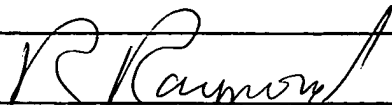
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
RR		3,410,880	11/1966	Brockenhurst			
RR		3,450,673	06/1969	McKillip			
RR		3,485,806	12/1969	Bloomquist <i>et al.</i>			
RR		3,488,327	01/1970	Kollinsky <i>et al.</i>			
RR		3,488,389	01/1970	McKillip			
RR		3,499,032	03/1970	Clemens <i>et al.</i>			
RR		3,511,894	05/1970	Markert			
RR		3,527,802	09/1970	Slagel			
RR		3,555,095	01/1971	Slagel			
RR		3,565,868	02/1971	Sedor <i>et al.</i>			
RR		3,567,725	03/1971	Grabowski <i>et al.</i>			
RR		3,583,950	06/1971	Kollinsky <i>et al.</i>			
RR		3,598,790	08/1971	Kollinsky <i>et al.</i>			
RR		3,641,145	02/1972	Culbertson			
RR		3,664,990	05/1972	Slagel			
RR		3,671,473	06/1972	Sedor <i>et al.</i>			
RR		3,676,453	07/1972	Pines <i>et al.</i>			
RR		3,704,128	11/1972	Koda <i>et al.</i>			
RR		3,706,797	12/1972	McKillip <i>et al.</i>			
RR		3,706,800	12/1972	Hartlage <i>et al.</i>			
RR		3,715,343	02/1973	Slagel <i>et al.</i>			
RR		3,728,387	04/1973	Freis <i>et al.</i>			
RR		3,756,994	09/1973	Culbertson			
RR		3,781,319	12/1973	Wawzonek <i>et al.</i>			
RR		3,794,495	12/1974	Ishihara <i>et al.</i>			
RR		3,803,220	04/1974	Gasman			
RR		3,811,887	05/1974	Ishihara <i>et al.</i>			
RR		3,818,065	06/1974	Schoellkopf <i>et al.</i>			

EXAMINER		DATE CONSIDERED	2-16-09
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<p>FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u></p>	ATTY. DOCKET NO.	APPLICATION NO.
	16887.068	10/764,112
	APPLICANTS	
	Joseph C. HOGAN, Jr.	
	FILING DATE	GROUP
	January 23, 2004	4772 1624

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
RR		3,850,969	11/1974	Grimm <i>et al.</i>			
RR		3,893,974	07/1975	Niino <i>et al.</i>			
RR		3,898,087	08/1975	Brutchen <i>et al.</i>			
RR		3,904,749	09/1975	McKillip			
RR		3,925,284	12/1975	Carleton <i>et al.</i>			
RR		3,934,029	01/1976	Kabara			
RR		3,934,031	01/1976	Kabara			
RR		3,934,035	01/1976	Kabara			
RR		3,946,131	03/1976	Biefeld <i>et al.</i>			
RR		3,948,866	04/1976	Pennewiss <i>et al.</i>			
RR		3,968,065	07/1976	Morris <i>et al.</i>			
RR		3,969,298	07/1976	Gasman			
RR		3,985,807	10/1976	Grimm <i>et al.</i>			
RR		4,005,055	01/1977	Miron <i>et al.</i>			
RR		4,016,340	04/1977	Kolesinski <i>et al.</i>			
RR		4,022,623	05/1977	Fitzgerald <i>et al.</i>			
RR		4,046,658	09/1977	Brown			
RR		4,067,830	01/1978	Kresta			
RR		4,070,348	01/1978	Kraemer <i>et al.</i>			
RR		4,078,901	03/1978	Sung <i>et al.</i>			
RR		4,080,206	03/1978	Kolesinski <i>et al.</i>			
RR		4,097,444	06/1978	Teige <i>et al.</i>			
RR		4,102,916	07/1978	Falk			
RR		4,122,159	10/1978	Madrang <i>et al.</i>			
RR		4,140,680	02/1979	Sullivan			
RR		4,162,355	07/1979	Tsibris			

EXAMINER



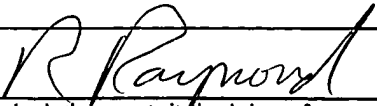
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
RR		4,189,481	02/1980	Kabara			
RR		4,212,905	07/1980	Talbris			
RR		4,213,860	07/1980	Tsibris			
RR		4,217,364	08/1980	Kabara			
RR		4,260,705	04/1981	Tsibris			
RR		4,280,008	07/1981	Schoellkopf <i>et al.</i>			
RR		4,304,705	12/1981	Heilmann <i>et al.</i>			
RR		4,378,411	03/1983	Heilmann <i>et al.</i>			
RR		4,424,272	01/1984	Taylor			
RR		4,451,619	05/1984	Heilmann <i>et al.</i>			
RR		4,485,236	11/1984	Rasmussen <i>et al.</i>			
RR		4,548,981	10/1985	Kolesinski <i>et al.</i>			
RR		4,617,253	10/1986	Taylor <i>et al.</i>			
RR		4,624,995	11/1986	Katritzky <i>et al.</i>			
RR		4,667,012	05/1987	Rasmussen <i>et al.</i>			
RR		4,670,528	06/1987	Taylor <i>et al.</i>			
RR		4,695,608	09/1987	Engler <i>et al.</i>			
RR		4,705,824	11/1987	Lin			
RR		4,737,560	04/1988	Heilmann <i>et al.</i>			
RR		4,740,568	04/1988	Katritzky <i>et al.</i>			
RR		4,777,217	10/1988	Rasmussen <i>et al.</i>			
RR		4,777,276	10/1988	Rasmussen <i>et al.</i>			
RR		4,785,070	11/1988	Rasmussen <i>et al.</i>			
RR		4,816,554	03/1989	Katritzky <i>et al.</i>			
RR		4,841,021	06/1989	Katritzky <i>et al.</i>			
RR		4,852,969	08/1989	Babirad <i>et al.</i>			

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	Joseph C. HOGAN, Jr.	
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	January 23, 2004	1772 1624

RR		4,871,824	10/1989	Heilmann <i>et al.</i>	_____	_____	
RR		4,874,822	10/1989	Rasmussen <i>et al.</i>	_____	_____	
RR		4,898,923	02/1990	Katritzky <i>et al.</i>	_____	_____	
RR		4,948,715	08/1990	Hulme-Lowe <i>et al.</i>	_____	_____	
RR		4,981,933	01/1991	Fazio <i>et al.</i>	_____	_____	
RR		5,013,795	05/1991	Coleman <i>et al.</i>	_____	_____	
RR		5,039,813	08/1991	Fazio <i>et al.</i>	_____	_____	
RR		5,066,559	11/1991	Elmasry <i>et al.</i>	_____	_____	
RR		5,075,352	12/1991	Elmasry	_____	_____	
RR		5,081,197	01/1992	Heilmann <i>et al.</i>	_____	_____	
RR		5,091,489	02/1992	Heilmann <i>et al.</i>	_____	_____	
RR		5,094,766	03/1992	Kapuscinski <i>et al.</i>	_____	_____	
RR		5,138,071	08/1992	Schoellkopf <i>et al.</i>	_____	_____	
RR		5,147,957	09/1992	Kumar	_____	_____	
RR		5,149,806	09/1992	Moren <i>et al.</i>	_____	_____	
RR		5,157,108	10/1992	Krepiski <i>et al.</i>	_____	_____	
RR		5,157,145	10/1992	Schoellkopf <i>et al.</i>	_____	_____	
RR		5,175,081	12/1992	Krepiski <i>et al.</i>	_____	_____	
RR		5,185,102	02/1993	Harelstad <i>et al.</i>	_____	_____	
RR		5,194,623	03/1993	Krepiski <i>et al.</i>	_____	_____	
RR		5,200,471	04/1993	Coleman <i>et al.</i>	_____	_____	
RR		5,571,698	11/1996	Ladner <i>et al.</i>	_____	_____	
RR		5,792,431	08/1998	Moore <i>et al.</i>	_____	_____	
RR		5,846,841	12/1998	Sepetov <i>et al.</i>	_____	_____	

EXAMINER	<i>R. Raymond</i>	DATE CONSIDERED	2-16-07
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	Joseph C. HOGAN, Jr.	
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RR		1 181 218	02/1970	Great Britain	—	—	Yes No
RR		1 265 163	03/1972	Great Britain	—	—	Yes No
RR		0 185 493	06/1986	EPO	—	—	Yes No
RR		0 212 617B1	01/1989	EPO	—	—	Yes No
RP		63 17933	04/1988	Japan	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RR			Aubry <i>et al.</i> , "Experimental Conformational Study of Two Peptides Containing $\alpha$ -Aminoisobutyric Acid. Crystal Structure of N-Acetyl- $\alpha$ -aminoisobutyric Acid Methylamide", <i>Biopolymers</i> , 17:1693-1711 (1978).
RR			Barker, C. C., "The Dehydration and Racemisation of N-Acyl-L-aspartic Acids by Acetic Anhydride", University College, Hull, pp. 453-456 (1952).
RR			Benedetti, Ettore, "Solid-State and Solution Conformation of Homo Oligo-( $\alpha$ -aminoisobutyric acids) from Tripeptide to Pentapeptide: Evidence for a $31_{10}$ Helix <sup>18</sup> ", <i>J. Am. Chem. Soc.</i> , 104:2437-2444 (1982).
RR			Benedetti <i>et al.</i> , "Folded and Extended Structures of Homooligopeptides from $\alpha, \alpha$ -Dialkylated Glycines. A Conformational Energy Computation and X-ray Diffraction Study, <i>J. Am. Chem. Soc.</i> 106:8146-8152 (1984).
RR			Benedetti <i>et al.</i> , "First Crystal Structure Analysis of a Complete Homo-Oligopeptide Series", <i>Istituto Chimico, University of Naples, Italy</i> , pp. 619-624, (1980).
RR			Bonora, Gian Maria, "Folded and Extended Structures of Homooligopeptides from $\alpha, \alpha$ -Dialkylated $\alpha$ -Amino Acids. An Infrared Absorption and H Nuclear Magnetic Resonance Study", <i>J. Am. Chem. Soc.</i> , 106:8152-8156 (1984).

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	Joseph C. HOGAN, Jr.	
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	January 23, 2004	1772-1624

RR		Bonora <i>et al.</i> , "Synthesis of a Homologous Series of Protected Oligopeptides Derived From L-Norvaline", <i>Bull. Soc. Chim. Belg.</i> , 84(4):299-304 (1975).
RR		Bosch <i>et al.</i> , "(-)-Isovaline: Confirmation of its D-(=R)- Configuration by X-Ray Analysis of Its N-Chloroacetyl Derivative", <i>Tetrahedron</i> 38(24):3579-3583 (1982).
RR		Bosch <i>et al.</i> , "Structure of the $3_{10}$ -Helical Pentapeptide Boc-Aib-L-Ala-Aib-L-Ala-Aib-OMe Dihydrate, $C_{24}H_{43}N_6O_9 \cdot 2H_2O$ ", <i>Acta Cryst. C</i> 39 pp. 776-778 (1983).
RR		Brown, Melancthon S., "Preparation of Some New Aminimides", <i>Journal of Chemical and Engineering Data</i> , 12(4) (1967).
RR		Burgess <i>et al.</i> , "An Obligatory $\alpha$ -Helical Amino Acid Residue", <i>Biopolymers</i> , 12:2599-2605 (1973).
RR		Cleaver <i>et al.</i> , "Synthesis of 2,2'-Bis-[5(4H)-oxazolones]", 77:1544-1546 (1955).
RR		Corkill <i>et al.</i> , "Light Scattering by Polydisperse Cylindrical Micelles", <i>Newcastle Technical Centre</i> , pp. 1274-1280 (1969).
RR		Culbertson, B.M., "Aminimides. VII Homo- and Copolymerization Studies on 1,1-Dimethyl-1-(2-hydroxypropyl)amine-Methacrylimide and 1,1-Dimethyl-1-(2,3-dihydroxypropyl)amine-Methacrylimide," <i>Macromolecules</i> , Vol. 1, page 254, June 1968.
RR		Culbertson <i>et al.</i> , "Synthesis and Polymerization Studies of aminimide Monomers containing Acetoxyl or Carboxylic Acid Residues", <i>Applied Polymer Symposium</i> , 26:339-410 (1975).
		<del>Delaney <i>et al.</i>, "Sterically-Hindered Amino Acids, Directors of Peptide Conformation", <i>Proceedings of the Seventh American Peptide Symposium, Peptides-Synthesis-Structure-Function</i>, pp. 303-306</del>
RR		Dharanipragada <i>et al.</i> , "Asymmetric Synthesis of Unusual Amino Acids: An Efficient Synthesis of Optically Pure Isomers of $\beta$ -Methylphenylalanine", <i>Tetrahedron</i> , 48(23):4733-4748 (1992).
RR		Fazio <i>et al.</i> , "Synthesis and Reactivity of Highly Versatile VDMO-VBC Copolymers", <i>Polymer Bulletin</i> 22, pp. 449-454 (1989).
RR		Fox, Jr., <i>et al.</i> , "A voltage-gated ion channel model inferred from the crystal structure of alamethicin at 1.5-Å resolution", <i>Nature</i> , 300:325-330 (1982).

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	16887.068	10/764,112
	APPLICANTS	
	Joseph C. HOGAN, Jr.	
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	January 23, 2004	1772 1627

RR		Francis, A.K., "The Crystal Structure of a $3_{10}$ Helical Decapeptide Containing $\alpha$ -Aminoisobutyric Acid", <i>FEBS Letters</i> , 155(2):230-232 (1993).
RR		Francis, Athappilly K., "The Crystal Structure of the Amino-Terminal Pentapeptide of Suzukacillin. Occurrence of a Four-fold Peptide Helix", <i>J. Chem. Soc. Perkin Trans. II</i> , 1235-1239 (1982).
RR		Francis <i>et al.</i> , "Crystal Structure of Boc-Ala-Aib-Ala-Aib-Methyl Ester, A Pentapeptide Fragment of the Channel-Forming Ionophore Suzukacillin", <i>Biopolymers</i> , 22:1499-1505 (1983).
RR		Haas <i>et al.</i> , "Thermally Reversible Homopolymer Gel Systems", <i>Polymer Letters</i> , 2:1095-1096 (1964).
RR		Hardy <i>et al.</i> , "Peptides Containing Dipropylglycine: Part 1. Preparation of protected derivatives of dipropylglycine and their incorporation into dipeptides," <i>Int. J. Peptide Protein Res.</i> , 21:392-405 (1983).
RR		Hardy <i>et al.</i> , "Peptides Containing Dipropylglycine: Part 2. Preparation of tripeptides and higher homologs of dipropylglycine," <i>Int. J. Peptide Protein Res.</i> , (1983), pp. 406-418.
RR		Heilmann <i>et al.</i> , "The Chemistry of 2-Alkenyl-2-Oxazolin-5-Ones," <i>Central Research Laboratories, 3M Corp.</i> (1982).
RR		Heilmann <i>et al.</i> , "Chemistry of Alkenyl Azlactones. IV. Preparation and Properties of Telechelic Acrylamides Derived from Amine-terminated Oligomers", <i>Journal of Polymer Science, Polymer Chemistry Edition</i> , 22:3149-3160 (1984).
RR		Hinds, Mark G., "Synthesis, Conformational Properties, and Antibody Recognition of Peptides Containing $\beta$ -Turn Mimetics Based on $\alpha$ -Alkylproline Derivatives", <i>J. Med. Chem.</i> , 34:1777-1789 (1991).
		<del>Hruby, Victor I., "Design of Drugs Acting at Peptidergic Receptors", <i>University of Arizona, Tucson, AZ</i>, pp. 797-804.</del>
RR		Hruby <i>et al.</i> , "Conformational and Dynamic Considerations in the Design of Peptide Hormone Analogs", <i>Biopolymers</i> , 22:517-530 (1983).
RR		Hubner, Van Klaus <i>et al.</i> , "Die Angewandte Makromolekulare Chemie 11," <i>Synthese und Reaktionen</i> , pp. 109-124 (1970).
RR		Inubushi <i>et al.</i> , "Thermal Decomposition Behavior of Mono-aminimides and Their Application to Polymerization of Epoxide", <i>Journal of Polymer Science: Part A: Polymer Chemistry</i> , 25:137-150 (1987).

EXAMINER	DATE CONSIDERED
<i>R. Raymundo</i>	2-16-09
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RR		Inubushi <i>et al.</i> , "Tough Epoxy Resins Cured with Aminimides", <i>Journal of Polymer Science, Part A: Polymer Chemistry</i> , 26:1779-1789 (1988).
RR		Iwakura <i>et al.</i> , "Synthesis of N-[1-(1-Substituted 2-oxopropyl)]acrylamides and -methacrylamides. Isolation and Some Reactions of Intermediates of the Dakin-West Reaction", <i>The Journal of Organic Chemistry</i> , (1966).
RR		Jung, G., "Stabilizing Effects of 2-Methylalaline Residues on $\beta$ -Turns and $\alpha$ -Helixes", <i>Biopolymers</i> , 22:241-246 (1983).
RR		Jung, Gunther, "Structure and Activity of Natural Peptides, Properties of the Membrane Modifying Polypeptide Antibiotics Alamethicin and Trichotoxin A-40," Walter deGruyter Berlin, 1981, pp 76-114.
RR		Kazmierski <i>et al.</i> , "Topographic Design of Peptide Neurotransmitters and Hormones on Stable Backbone Templates: Relation of Conformation and Dynamics to Bioactivity", <i>J. Am. Chem. Soc.</i> , 113:2275-2283 (1991).
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RR		Leplawy, M.T. <i>et al.</i> , "Synthesis of Peptides Derived from Alpha-Methylalanine," <i>Tetrahedron</i> , Vol. 11, pp. 39-51, (1960).
RR		Marshall, Garland R., "Intra-Science Chemistry Reports," Volume 5, No. 4 (1971), pp. 305-316, <i>Studies on the Biologically-Active Conformations of Angiotensin</i> .
RR		Marshall <i>et al.</i> , "Angiotensin II - Studies on the Biologically Active Conformation", <i>Supplement II to Circulation Research</i> , vols. XXX and XXXI:143-150 (1972).
RR		Mayr <i>et al.</i> , "Die Kristallstruktur von $\alpha$ -(tert-Butyloxycarbonylamino)-isobuttersaure", <i>Liebigs Ann. Chem.</i> , 715-724 (1980).
RR		McKillip <i>et al.</i> , "The Chemistry of Aminimides", <i>Chemical Reviews</i> , 73(3):255-281 (1973).
RR		Mierke <i>et al.</i> , "Peptidomimetics in the Study of Opiate Peptides", <i>Chemistry Department, University of California, San Diego, Clinical Research Institute of Montreal, Montreal Quebec, Canada H2W 1R7, Structural Biology</i> , pp. 348-350, (1989)
RR		Muthiah <i>et al.</i> , "Copolymers of 2-Vinyl-4,4-Dimethylazlactone with Styrene and Ethyl $\alpha$ -Hydroxymethylacrylate", <i>Jounral of Polymer Science: Part A: Polymer Chemistry</i> , 29:29-37 (1991).

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	January 23, 2004	1772-1624

RR		Nagaraj <i>et al.</i> , "Alamethicin, a Transmembrane Channel", <i>Acc. Chem. Res.</i> , 14:356-362 (1981).
RR		Nagaraj <i>et al.</i> , "Stereochemically Constrained Linear Peptides. Conformations of Peptides Containing $\alpha$ -Aminoisobutyric Acid", <i>J. Am. Chem. Soc.</i> , 101(1):16-20 (1979).
RR		Nair <i>et al.</i> , "Structure of a Peptide Oxazolone: 2-(1-Benzylloxycarbonylamino-1'-methylethyl)-4,4-dimethyl-5-oxazolone", <i>Acta Cryst.</i> , B36:1498-1500 (1980).
RR		Nicolas, Ernesto, "Asymmetric Synthesis of Unusual Amino Acids: Synthesis of Optically Pure Isomers of $\beta$ -methyltyrosine", <i>Tetrahedron Letters</i> , 30(49):6845-6848 (1989).
RR		Niino <i>et al.</i> , "Aminimide as Hardener/Curing Promoter for One Part Epoxy Resin Composition", <i>J. Applied Polymer Science</i> , 27:2361-2368 (1982).
RR		Paterson <i>et al.</i> , "Sensitivity of Polypeptide Conformation to Geometry. Theoretical Conformational Analysis of Oligomers of $\alpha$ -Aminoisobutyric Acid", <i>J. Am. Chem. Soc.</i> , 103(11):2947-2955 (1981).
RR		Peters <i>et al.</i> , "Quantum Theory of the Structure and Bonding in Proteins", <i>J. Molecular Structure</i> , 86:341-347 (1982).
RR		Prasad <i>et al.</i> , "Molecular Structure of Boc-Aib-Aib-Phe-Met-NH <sub>2</sub> DMSO. A Fragment of a Biologically Active Enkephalin Analogue", <i>J. Chem. Soc. Perkin Trans.</i> , 1:417-421 (1983).
RR		Rao <i>et al.</i> , "Hydrophobic Channels in Crystals of an $\alpha$ -Aminoisobutyric Acid Pentapeptide", <i>Biochem. &amp; Biophys. Res. Comm.</i> , 103(3):898-904 (1981).
RR		Rao <i>et al.</i> , "Molecular Structure of t-Butyloxycarbonyl-Leu-Aib-Pro-Val-Aib-Methyl Ester, a Fragment of Alamethicin and Suzukacillin: a $3_{10}$ -Helical Pentapeptide", <i>Biopolymers</i> , 21:2461-2472 (1982).
RR		Rasmussen <i>et al.</i> , "Multiazlactones--Potential Alternatives to Isocyanate and Epoxy Resins," pp. 33-34, (1984),
RR		Rasmussen <i>et al.</i> , "Chemistry of Alkenylazlactones, 2 <sup>a</sup> ) Reaction with thiols", <i>Makromol. Chem. Rapid Comm.</i> , 5:67-70 (1984).
RR		Roques, Bernard P., "Peptidomimetics as Receptor Agonists or Peptidase Inhibitors: A Structural Approach in the Field of Enkephalins, ANP and CCK", <i>Biopolymers</i> , 32:407-410 (1992).

EXAMINER	DATE CONSIDERED
RR Rasmussen	2-16-09
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	Joseph C. HOGAN, Jr.	
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EXAMINER	DATE CONSIDERED
<i>RR [Signature]</i>	2-16-09
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO.	APPLICATION NO.
	16887.068	10/764,112
	APPLICANTS	
	Joseph C. HOGAN, Jr.	
	FILING DATE	GROUP
	January 23, 2004	<del>1772</del> 1624

RR		Taylor <i>et al.</i> , "Synthesis of Poly(4,4-dimethyl-2-vinyl-5-oxazolone) an Interesting Material for Preparing Polymeric Agents", <i>Makromol Chem. Rapid Commun.</i> , 3:779-782 (1982).
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<i>R. R. Ruppel</i>	2-16-09
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